

Title (en)

PRIMITIVE GUT ENDODERM CELLS AND METHOD FOR PRODUCING SAME

Title (de)

PRIMITIVE ENDODERME DARMZELLEN UND VERFAHREN ZUR HERSTELLUNG DAVON

Title (fr)

CELLULES PRIMITIVES D'ENDODERME D'INTESTIN ET LEUR PROCÉDÉ DE PRODUCTION

Publication

EP 3239294 A1 20171101 (EN)

Application

EP 15868455 A 20151208

Priority

- JP 2014248694 A 20141209
- JP 2015084379 W 20151208

Abstract (en)

The present invention provides a technique that serves as a platform for inducing human organ cells at a low cost, stably and in a large quantity. A cell inducible after differentiating pluripotent stem cells and then passaging the resultant cells at least once or more times, which is negative for undifferentiated (pluripotent) cell markers NANOG, OCT4, MYC and LIN28A, negative for endoderm cell markers CXCR4, CER1, HHEX and GATA4, positive for intestinal endoderm cell markers CDX2 and HOXB9, negative for a mesenchymal cell marker brachyury (T), negative for a pancreatic cell marker PDX1, and capable of differentiating into at least a hepatocyte, a pancreatic cell and an intestinal cell. Also provided are methods of preparing and amplifying the above cells; a method of preparing organ cells using the above cells; and a method of constructing a working cell bank for preparing organ cells, comprising cryopreserving the above cells.

IPC 8 full level

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CPC (source: EP KR US)

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Cited by

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BA ME

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